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Interactive System Productivity Facility (ISPF)



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Introduction

The Interactive System Productivity Facility (ISPF) is a programming tool which provides access to partitioned and sequential data sets. The current version of ISPF provides an action bar-driven interface. The panels look different from the previous version and most have action bars at the top.

This section includes the following topics:

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System Overview

ISPF is an application on the OS/390 mainframe operating system used by the United States Department of Agriculture (USDA). ISPF helps programmers develop interactive applications, called dialogs, which are used to communicate with terminal users. Through a series of panels, users gain access to ISPF functions (menus), request information (data entry panels), and provide information (scrollable data displays).

For more information see:

System Capabilities and Interface.....	1
Responsibilities	2

System Capabilities and Interface

ISPF can be used in the following ways:

- Users can employ ISPF Edit, SCRIPT/VS, and the Hardcopy utility or another print utility provided by their installation to prepare memos and other written documents.
- Data processing administrators and system programmers can use ISPF to monitor and control program libraries and communicate with Multiple Virtual Storage (MVS) through Time Share Option (TSO) commands, CLISTs, or REXX EXECs. Programmers can use ISPF to develop a batch, interactive, or any other type of program and documentation.
- Terminal users can access dialogs that use the Dialog Manager (DM) component and Program Development Facility (PDF) component dialog services to do the work of the application.



- The View, Browse, and Edit functions; a wide range of utilities; foreground and batch compilers; program library control; and other facilities are available to assist in developing ISPF dialogs.

Responsibilities

Listed below are the responsibilities of the primary organizations involved in data processing and system maintenance for ISPF.

The National Finance Center (NFC):

- Installs, operates, and maintains the ISPF system.
- Allows developers to program in an interactive environment.
- Provides limited technical support to client Agencies.
- Trains Agency personnel in the limited use of ISPF.
- Develops and issues ISPF procedures.

The Agency:

Uses ISPF to view, edit, move, copy, print, and delete data.

System Access

This section provides access security information and gives specific sign-on/signoff and change password instructions.

For more information see:

Security and Remote Terminal Usage	2
Sign-On.....	3
Signoff	6
Changing Your Password	6

Security and Remote Terminal Usage

Access security is designed to prevent unauthorized use of systems and databases. To access ISPF, you must (1) have authorized security clearance and (2) use a terminal or personal computer that is connected through your telecommunications network to the mainframe computer located at



OCFO/NFC. For information about connecting and disconnecting from your telecommunications network, see the instructions that are provided with your specific network.

Sign-On

To access this system, you must:

1. Sign on to the NFC Mainframe. The NFC Mainframe Warning screen is displayed.

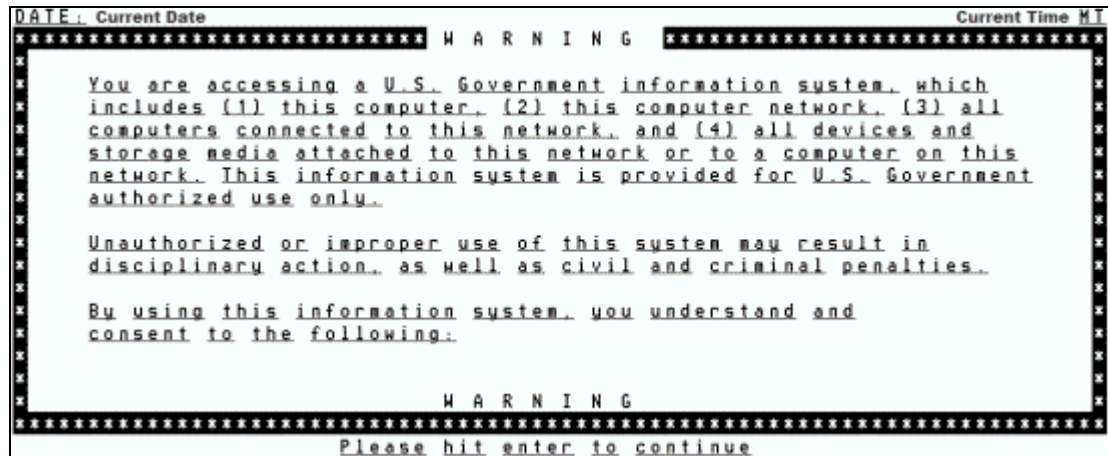


Figure 1: NFC Mainframe Warning Screen

2. Press **Enter** to display the NFC banner screen.



Figure 2: NFC Banner Screen

3. Complete the fields as described below.

Field	Description/Instruction
-------	-------------------------



Field	Description/Instruction
Enter User ID	Type your assigned user identification (ID) (i.e., NF0999). Press Tab .
Password	Type your password. (Your password is not displayed on the screen.) Press Tab . Note: You may press Enter (instead of Tab) after typing your password to go directly to the CL/SUPERSESSION Main Menu screen.
New Password?	Displays system-generated "N." If you are not changing your password, press Tab. If you are changing your password, enter "Y." Then complete the steps for changing your password as described under Changing Your Password.
Enter Application Name	Type the application acronym and press Enter to go directly to that system. OR Leave the field blank and press Enter to go directly to the CL/SUPERSESSION.

4. At the CL/SUPERSESSION Main Menu screen:

- Press **F8** to scroll through the Session IDs until the appropriate Session ID appears.
- **Tab** until the cursor is located on the line next to the Session ID.
- Press **Enter**.

OR

- Press **F9** to bring the cursor to the Command Line at the bottom of the screen and retrieve a specific Session ID.
- Type **s**.
- Press the **space bar** once.
- Type the Session ID acronym.
- Press **Enter**. See screen below for an example. The applicable system is displayed.



```

_____ Actions Options Commands Features Help
-----
KLSVSEL1                CL/SUPERSESSION Main Menu                More:  +

Select sessions with the ENTER key or use a "/"
to display an action code.

  Session ID      Description                                     Type      Status
  -----
- IDMS05          IDMS05                                         Multi
- PINQ05          IDMS05                                         Multi
- ABCDINQ         IDMS03                                         Multi
- ABCD            IDMS03                                         Multi
- $DB2            TSDB $DB2          TSDB    PROC($DB2    Multi
- $ORACLE         TSOA                                         Multi
- $ORACLEA        TSOA                                         Multi
- $SPFA           TSOA $SPFA          TSOA    PROC($SPF    Multi
- $SPFAV2         TSOA $SPFAV2        TSOA    PROC($SPF    Multi
- $SPFB           TSDB $SPFB          TSDB    PROC($SPF    Multi
- $SPFBV2         TSDB $SPFBV2        TSDB    PROC($SPF    Multi
- $SPFC           TSOC $SPFC          TSOC    PROC($SPF    Multi

TSS7030I Password Changed
Command ==>
                                                    SYSB/T30N6447
Enter F1=Help  F3=Exit  F5=Refresh  F8=Fwd  F9=Retrieve  F10=Action

```

Figure 3: CL/SUPERSESSIDN Main Menu Screen

```

----- Actions Options Commands Features Help -----
KLSVSEL1                                CL/SUPERSESSION Main Menu                                More:  +

Select sessions with the ENTER key or use a "/"
to display an action code.

  Session ID  Description                                     Type      Status
-----
- IDMS05      IDMS05                                         Multi
- PINQ05      IDMS05                                         Multi
- ABCDINQ     IDMS03                                         Multi
- ABCD        IDMS03                                         Multi
- $DB2        TSOB  $DB2      TSOB  PRDC($DB2      Multi
- $ORACLE     TSOA                                         Multi
- $ORACLEA    TSOA                                         Multi
- $SPFA       TSOA  $SPFA    TSOA  PRDC($SPF    Multi
- $SPFAV2     TSOA  $SPFAV2    TSOA  PRDC($SPF    Multi
- $SPFB       TSOB  $SPFB    TSOB  PRDC($SPF    Multi
- $SPFBV2     TSOB  $SPFBV2    TSOB  PRDC($SPF    Multi
- $SPFC       TSOB  $SPFC    TSOB  PRDC($SPF    Multi

Command ==> s TMGT
Enter F1=Help  F3=Exit  F5=Refresh  F8=Fwd  F9=Retrieve  F10=Action

```

Figure 4: CL/SUPERSESSIDN Main Menu Screen (Session ID Displayed)



Follow the signoff-screen prompts at the bottom of the screen to exit the system or to return to the CL/SUPERSESSION Main Menu screen.

Figure 5: CL/SUPERSESSION Main Menu Screen

1. At the CL/SUPERSESSION Main Menu screen, press **F3** and the Exit Menu popup is displayed.
2. Position the cursor in front of Exit and press **Enter** to exit and terminate the CL/SUPERSESSION.

Position the cursor in front of Resume and press **Enter** to exit the application without terminating the CL/SUPERSESSION Main Menu screen.

If you need to change your password:



1. Type "Y" next to the New Password? prompt on the NFC banner screen.

```

=====
== CURRENT DATE          SNX32703          T30N6447          PF1=HELP ==
=====
==                      NN      NN      FFFFFFFF      CCCCCCCC ==
==                      NNN     NN      FFFFFFFF      CCCCCCCC ==
==                      NNNN    NN      FF           CCC       ==
==                      NN NN NN  FFFFFFFF      CCC       ==
==                      NN  NNNN  FFFFFFFF      CCC       ==
==                      NN  NN    FF           CCCCCCCC ==
==                      NN      NN      FF           CCCCCCCC ==
=====
==                      National Finance Center                      ==
==                      Office of the Chief Financial Officer          ==
==                      United States Department of Agriculture        ==
==                      For Authorized Use Only                      ==
== ENTER USER ID =          PASSWORD =          NEW PASSWORD? Y ==
==                      (Y or N) ==
== ENTER APPLICATION NAME =          OR PRESS ENTER FOR MENU ==
==                      ==
==                      ==
=====

```

Figure 6: NFC Banner Screen (with New Password? prompt set to Y)

2. Press **Enter** and the Change Password screen appears.

```

=====
KLGNPWD1          Change Password
=====
Type in your new password twice, and press ENTER.

Enter new password.....
Verify new password.....

Command ==>
Enter F1=Help F3=Exit F12=Cancel
=====

```

Figure 7: Change Password Screen

3. Enter the new password.
4. Verify the new password. Once you have entered your new password and verified it, the system will display another screen stating that the password was changed. See screen below.

Note: You may change your password at anytime, but no more than once a day. Before your password expires, you will be prompted to enter a new password.

```

=====
TSS7030I Password Changed
=====

Press ENTER to continue
=====

```

Figure 8: Password Changed Verification Screen



Operating Features

This section describes the system's design and operating features.

To select an option from the ISPF Primary Option Menu use one of the following methods:

- Select an option from one of the pulldown menus on the action bar.

OR

- Select one of the point-and-shoot fields. Point-and-shoot fields are cursor sensitive. If selected, the action described in that field is performed.

OR

- Type an option on the Command line and press **Enter**.

Note: Unless otherwise specified, the last selection method above is used in the instructions throughout this documentation. If you wish, you may substitute one of the other methods, described above, to select menu options.

For more information see:

System Design	8
Help Screens	8
System Edits	9
Function Keys	9

System Design

ISPF is designed to allow users the ability to prepare, view, store, and print reports and memorandums, and edit data files. Most ISPF functions are controlled by menus that offer a list of processing functions.

Help Screens

Help screens are available for all ISPF panels.



System Edits

All entries in the system are subject to front-end system edits. If an error occurs or if required data is omitted, an edit error message is displayed at the bottom of the screen. All errors must be corrected before the database is updated.

Function Keys

The program function (PF) keys are used to access ISPF options. How these keys are identified depends on the equipment being used. Other function keys include Enter, Clear, and Tab. For detailed instructions on your equipment usage, see the appropriate manufacturer's operating guide. The functions of applicable PF keys are displayed at the bottom of each screen.



ISPF Primary Option Menu

After you access ISPF, the ISPF Primary Option Menu panel is displayed. This panel contains 2 menus: (1) the Action Bar pulldown menu, located at the top of the panel, with 6 options and (2) the ISPF Primary Option Menu with 10 options. Options on both of these menus are described below.

Menu Utilities Compilers Options Status Help		

ISPF Primary Option Menu		
0	<u>S</u> ettings	Terminal and user parameters
1	<u>V</u> iew	Display source data or listings
2	<u>E</u> dit	Create or change source data
3	<u>U</u> tilities	Perform utility functions
6	<u>C</u> ommand	Enter TSO or Workstation commands
C	<u>C</u> hanges	Display summary of changes
I	<u>I</u> nfo/ <u>M</u> gmt	Info/Management Problem Data Base
P	<u>P</u> CMAN	Production ChangeMan ZMF Function
S	<u>S</u> DSF	System Display and Search Facility
T	<u>T</u> UTORIAL	Display information about ISPF/PDF
		User ID . : NFXXX
		Time. . . : 15:54
		Terminal. : 3278
		Screen. . : 1
		Language. : ENGLISH
		Appl ID . : ISR
		TSO logon : US05PROC
		TSO prefix: NFXXX
		<u>S</u> ystem <u>I</u> D : <u>S</u> YSB
		<u>M</u> VS <u>a</u> cc <u>t</u> . : <u>2</u> 1050051
		<u>R</u> elease . : <u>I</u> SPF <u>6</u> .1
Enter <u>X</u> to Terminate using log/list defaults		
Option ==>		
F1=Help	F2=Split	F3=Exit
F10=Actions	F12=Cancel	F7=Backward
		F8=Forward
		F9=Swap

Figure 9: ISPF Primary Option Screen

This section includes the following topics:

Description of the Action Bar Menu Options	11
Description of the ISPF Primary Option Menu	13

Description of the Action Bar Menu Options

The Action Bar pulldown menu appears at the top of the ISPF Primary Option Menu panel and consists of six options. Below is a brief description of each option.

<u>M</u> enu	<u>U</u> tilities	<u>C</u> ompilers	<u>O</u> ptions	<u>S</u> tatus	<u>H</u> elp

Figure 10: Action Bar Menu Options

Menu. Provides an alternate method for accessing some of the same options contained on the Primary Option menu and contains options accessible only from this menu. This menu consists of 10 options.



Utilities. (For NFC Use Only) Performs library and data set maintenance tasks, such as moving or copying library or data set members, displaying or printing data set names and volume table of contents (VTOC) information, comparing data sets, and searching for strings of data. This menu consists of 15 options; however, its general use is not supported by NFC.

Compilers. (For NFC Use Only) Translates the high-level programming language into machine language. This menu consists of four options; however, its general use is not supported by NFC.

Options. (For NFC Use Only) Displays the ISPF Settings panel, the CUA Attribute Change utility, the Keylist Utility panel, Global Color Change Utility panel, and the Dialog Test Application ID popup. This menu has six options; however, its general use is not supported by NFC.

Status. (For NFC Use Only) Specifies what you want to display in the status area. The Status menu consists of six options; however, its general use is not supported by NFC.

Help. Provides assistance in using ISPF.

For more information see:

Using the Menu Option on the Action Bar Menu12

Using the Menu Option on the Action Bar Menu

Menu is the first option on the Action Bar pulldown menu. To access this option, place the cursor under the **M** (in Menu) and press **Enter**. The 10 Menu Action Bar options are displayed.

Menu	Utilities	Compilers	Options	Status	Help
1. Settings					
2. View					
3. Edit					
4. ISPF Command Shell					
5. Dialog Test...					
6. Other IBM Products...					
7. SCLM					
8. ISPF Workplace					
9. Status Area...					
10. Exit					

Primary Option Menu

er parameters User ID . : NFXXX
data or listings Time . . . : 15:54
e source data Terminal . : 3278
functions Screen . . : 1
rkstation commands Language . : ENGLISH
of changes Appl ID . : ISR
Problem Data Base TSO logon : US05PROC
geMan ZMF Function TSO prefix: NFXXX
and Search Facility System ID : SYSB
MVS acct. : 21050051
Release . : ISPF 6.1

T TUTORIAL Display information about ISPF/PDF

Enter X to Terminate using log/list defaults

Option ==>
F1=Help F2=Split F3=Exit F7=Backward F8=Forward F9=Swap
F10=Actions F12=Cancel

Figure 11: Menu Action Bar Options Screen



The Action Bar options that are available vary from panel to panel, as do the options available from their pulldowns. However, Menu and Utilities are basic action bar options and the options on their pulldown menus are always the same. Following is a description of each option.

1. **Settings.** Displays the ISPF Settings panel and is discussed in detail in the section entitled Establishing Terminal and User Parameters.
2. **View.** Displays source data or listings and is discussed in detail in the section entitled Establishing Terminal and User Parameters.
3. **Edit.** Used to create, display, and change source data, such as program code and documentation using the ISPF full screen editor. Edit is discussed in detail in the section entitled Establishing Terminal and User Parameters.
4. **ISPF Command Shell.** (For NFC Use Only) Displays the ISPF Command Shell panel; however, its general use is not supported by NFC.
5. **Dialog Test.** (For NFC Use Only) Displays the Dialog Test Primary Option panel; however, its general use is not supported by NFC.
6. **Other IBM Products.** (For NFC Use Only) Displays the Additional IBM Program Development Products panel; however, its general use is not supported by NFC.
7. **SCLM.** (For NFC Use Only) Displays the SCLM Main Menu; however, its general use is not supported by NFC.
8. **ISPF Workplace.** (For NFC Use Only) Displays the Workplace entry panel; however, its general use is not supported by NFC.
9. **Status Area.** (For NFC Use Only) Displays the ISPF Status panel; however, its general use is not supported by NFC.
10. **Exit.** Used to exit ISPF.

Description of the ISPF Primary Option Menu

The ISPF Primary Option Menu consists of 10 options. Option **0**, which was previously referred to as ISPF Params, is now referred to as Settings, and options on the ISPF Primary Option Menu remain the same. Their functionality also remains the same. Below is a brief description of each option.

0 Settings. Used to display and change selected ISPF parameters, such as terminal characteristics and function keys, at any time during the ISPF session. This option can also be accessed from the Action Bar.



1 View. Allows you to view or browse source data and lists stored in ISPF libraries or other partitioned or single-volume or multi-volume sequential data sets. Use **View** or **Browse** to look at large data sets, such as compiler lists. You can scroll the data up, down, left, or right. If you are using **Browse**, a *FIND* command, entered on the command line, allows you to search the data and find a character string. If you are using **View**, you can use all the commands and macros available to you in the Edit function.

2 Edit. Used to create, display, and change source data, such as program code and documentation, using the ISPF full screen editor. You can scroll the data up, down, left, or right. You can change the data by using Edit line commands, which are entered on the command line.

3 Utilities. Used to perform library and dataset maintenance tasks, such as moving or copying library or dataset members, displaying or printing dataset names and volume table of contents (VTOC) information, comparing datasets, and searching for strings of data.

6 Command. (For NFC Use Only). Used to enter TSO commands, CLIST, or REXX EXECs on the Command line of any panel and in the Line Command field on dataset list displayed; however, its general use is not supported by NFC.

C Changes. (For NFC Use Only). Provides a summary of changes; however, its general use is not supported by NFC.

I INFO/MGMT. (For NFC Use Only). Provides an organized framework to manage data processing problems and changes and to maintain inventories and configurations; however, its general use is not supported by NFC.

P PCMAN (For NFC Use Only). Used to control and track changes to application software.

S SDSF (System Display and Search Facility). Used to view and print output data from remote terminals.

T TUTORIAL. Provides help and other information about ISPF.

Instructions follow for using the system options that are supported by NFC.



Establishing Terminal and User Parameters

Terminal and User parameters are established by using the Settings option, on the Primary Option Menu or the Action Bar pulldown menu. You are able to display and change a variety of ISPF parameters at any time during an ISPF session. This facility can be started from any command line with the Settings command.

This section includes the following topics:

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Using the Settings Options

To access the Settings option, type **Settings** at the command line and press **Enter**. The ISPF Settings panel is displayed showing the options.

Log/List	Function	keys	Colors	Environ	Workstation	Identifier	Help
ISPF Settings							
<u>Options</u>				<u>Print Graphics</u>		<u>More:</u> ±	
Enter "/" to select option				Family printer type 2			
/ Command line at bottom				Device name			
/ Panel display CUA mode				Aspect ratio . . . @			
/ Long message in pop-up							
/ Tab to action bar choices							
- Tab to point-and-shoot fields							
/ Restore TEST/TRACE options				<u>General</u>			
- Session Manager mode				Input field pad . . B			
/ Jump from leader dots				Command delimiter . i			
- Edit PRINTDS Command							
/ Always show split line							
/ Enable EURO sign							
<u>Member list options</u>							
Enter "/" to select option							
/ Scroll member list							
- Allow empty member list							
- Allow empty member list (nomatch)							
/ Empty member list for edit only							
<u>Terminal Characteristics</u>							
Screen format		2	1. Data	2. Std	3. Max	4. Part	
Terminal Type		3	1. 3277	2. 3277A	3. 3278	4. 3278A	
Command ==> -							
F1=Help		F2=Split		F3=Exit		F7=Backward F8=Forward F9=Swap	
F10=Actions		F12=Cancel					

Figure 12: ISPF Settings Panel

Below is a description of each option:

- **Command Line at Bottom.** Used to specify that the command line is to appear at the bottom of each screen. Line commands are valid only when you call them within the PDF component. Exceptions are the primary and line commands for EDIT, which are defined in ISPF EDIT and Edit Macros and those defined for option 8. The ISPF primary option that you are using determines which commands are valid.



PDF component primary commands can affect a complete dataset or PDS member, but the line commands can affect only one or more specified lines within a dataset.

- **Panel Display CUA Mode.** Used to specify that panels are displayed in Common User Access (CUA) mode. This selection affects how the long message line, command line, and function keys are displayed.

A panel is a predefined display image that you see on a display screen. ISPF formats all panels to fit on a 24-line by 80-character screen. On a 3278 Model 3 or 4, data that you can scroll occupies the full length of the screen. On a 3278 Model 5, ISPF displays information in default mode. Browse and edit data that is wider than 80 characters is displayed with the smaller native mode characters. Use the Settings option to override the automatic modes.

The panel-display CUA-mode field determines where the Command or Option line and long messages are displayed on the bottom of the panel. The default setting also selects long messages in the popup, which causes long messages to be displayed in a popup window directly above the Command or Option line. To display the command or option line and long messages at the top of the panel, select option **0**, deselect the panel-display CUA-mode field, and deselect the Command line at bottom field.

- **Long Message in Popup.** Used to specify that long messages will be displayed in a popup window, regardless of the WINDOW setting in the message source.
- **Tab to Action Bar Choice.** Used to specify that you want to use the Tab key to move the cursor among the action bar choices.
- **Tab to Point-and-Shoot Fields.** Used to specify that you want to use the Tab key to move the cursor through point-and-shoot fields on a panel. The point-and-shoot fields are cursor sensitive. If you select a field, the action is performed.

Note: If you have a command on the command line, this command is processed before any point-and-shoot command.

The cursor-sensitive portion of a field often extends past the field name. You can use the Tab key to position the cursor to point-and-shoot fields by selecting the Tab down-and-shoot fields option of the ISPF Settings panel.

- **Restore TEST/TRACE Options.** Used to specify the restoration of the TEST and TRACE values to the ISPF call values when you exit dialog test.

Note: When you select Dialog Test facility, certain TEST and TRACE options are established that can be different than those specified during ISPF start up.

- **Session Manager Mode.** Used to enter a slash to indicate that the Session Manager should handle any line mode output from the processing program.



To invoke the session manager mode, select it from the Settings panel. If you select this option, any display output is displayed in the Session Manager TSOOUT stream.

The function key definitions are not transferred to the Session Manager from ISPF. When the command ends, the Session Manager prompts you to enter an empty line to return to ISPF control and displays the TSO Command Processor panel again when you do so.

If you do not select Session Manager mode, terminal I/O occurs as though the Session Manager were not installed. The terminal operates in normal TSO fashion. Any communication with the commands is in-line I/O mode. When the command ends, three asterisks (***) are displayed. Press **Enter** to display the TSO Command Processor panel again in full screen mode.

To interrupt a TSO command, CLIST, or REXX EXEC, press **PA1**. The TSO command ends and the TSO Command Processor panel is displayed again. If terminal input is inhibited, press the **Reset** key before pressing **PA1**. If you are in Session Manager mode, enter a null line to return to ISPF full-screen mode.

When the TSO Command Processor panel is displayed again, the command that was just processed is displayed to the right of the arrow. Enter another command or the **END** command to return to the ISPF Primary Option Menu.

- **Jump From Leader Dots.** Used to enable the ISPF jump function from field prompts that have leader dots (. . or ...). Field prompts that have the ==> will always have the jump function enabled. Enter a slash to enable the function.
- **Edit PRINTDS Command.** Used to intercept the local print request to allow you to modify the statement before the PRINTDS command begins. Enter a slash to invoke the function.

If you have selected the **Edit PRINTDS** command on the ISPF Settings panel and you specify a local printer ID on either the Log and List Data Set Termination Options panel or the Hardcover Utility panel, ISPF displays the Local Print Command Edit panel to allow you to edit the PRINTDS command before it processes.

- **Always Show Split Line.** Used to specify that the split line in split-screen mode, as seen on a 3270 display, should always be shown. The default for the option is selected. By deselecting this option, the split line does not display when the screen is split at the top or the bottom of the screen.

For more information see:

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Using Terminal Characteristics

The Terminal Characteristics portion of the ISPF Settings panel allows you to specify values for the following terminal characteristics:

Screen Format 1

Specification of screen format applies to 3278 Model 5 (or 3180 set to a mode that emulates the 3278 Model 5) and 3290 terminals only. ISPF ignores screen format for other types of terminals.

Following are explanations for the terminal types:

- **Data.** Format is based on data width (for 3278 Model 5 only).
- **Std.** Format is always 24 x 80 characters.
- **Max.** Format is always 27 x 132 characters.
- **Part.** Format uses hardware partitions (3279 only).

Note: If you are in an Edit session or you are using the EDIT service, ISPF will not allow you to change the screen format.

Terminal Type 3

You must specify a valid terminal type. If you are using a terminal emulator, select the type that is being emulated (more than likely, a 3278 or 3278x).

Specification of a terminal type allows ISPF to recognize valid characters. The terminal type value that you specify to ISPF might not be the actual terminal type. For example, if your terminal is a 3279, you specify 3278 because a 3279 terminal has the same character set as a 3278. The keyboard character sets for the specified terminal and the actual terminal are always compatible. For specific information about the type value to specify to ISPF for each supported terminal, refer to Help form the ISPF Settings panel.

Print Graphics Params

The Print Graphics Params portion of the ISPF Settings panel allows you to specify the family printer type, device name, and aspect ratio. They are described below.

- **Family Printer Type.** This parameter has a default value of 2, which cannot be changed.
- **Device Name.** VTAM node name of the physical printer to which graphic display output is to be routed.
- **Aspect Ratio.** The manner in which the graphics aspect ratio (relationship to displayed screen image) is to appear on the printed output. Aspect ratio can be either of the following:



- **0** Preserves the aspect ratio of the graphic area.
- **1** Preserves the positional relationship between the graphic and the alphanumeric characters outside the graphics area.

General

The General portion of the ISPF Settings panel allows you to specify values for the input field pad and the command delimiter. They are described below.

- **Input Field Pad.** Specifies a pad character that controls the initial padding of blank (unfilled) panel fields, including the selection panels, but not the data portion, of an Edit display. Within Edit, you control null or blank padding with Edit commands. The pad character specified can be a **B** (for Blank), **N** (for Nulls), or any special (non–alphanumeric) character.
- **Command Delimiter.** You can stack commands on the command line by separating them with a delimiter. The default delimiter, the semicolon, can be changed using this option. Alphanumeric characters, the period (.), and the equal sign (=) are not valid command delimiters.



Specifying Settings on the Panel Action Bar

The ISPF Settings Panel Action Bar portion of the ISPF Settings panel is located at the top of the ISPF Settings panel. Following is a discussion of the options.

Log/List **Function keys** **Colors** **Environ** **Workstation** **Identifier** **Help**

Log/List. Allows you to specify the log and list dataset defaults that are used when you terminate ISPF by issuing the **Return** or **End** command or by entering an **X** on the ISPF Primary Option Menu command line.

Function Keys. (For NFC Use Only) Allows you to define function keys and to create, edit, delete, and view keylists; however, its general use is not supported by NFC.

Colors. (For NFC Use Only) Allows you to access the Global Color Change Utility and the ISPF CUA Attribute Utility along with the Point-and-Shoot Color Change panel; however, its general use is not supported by NFC.

Environ. (For NFC Use Only) Allows you to invoke the ISPF ENVIRON Command Settings panel allowing users to enable traces, dumps, and obtain information about their terminal or terminal emulators; however, its general use is not supported by NFC.

Workstation. (For NFC Use Only) Allows you specify that the user wants to start a Graphical User Interface session; however, its general use is not supported by NFC.

Identifier. (For NFC Use Only) Allows you to run display screen names, messages, and panel identifiers off and on; however, its general use is not supported by NFC.

Help. Allows you to obtain assistance in using ISPF.

For more information see:

Using the Log/List Option	21
Establishing Settings on the Log Data Set Defaults Panel	22
Settings for the List Data Set Defaults Panel	24
Settings for the List Data Set Characteristics Panel	26
Settings for the JCL Panel	27



Using the Log/List Option

Log/List option is first on the ISPF Settings Panel Action bar. To access this option, position the cursor under the **L** (in log). Press **Enter**. The Log/List pulldown menu is displayed with four options.

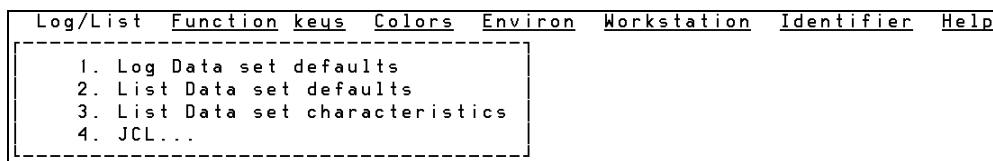


Figure 13: Log List Pull-Down Menu

Following is a description of each option.

1. **Log Data Set Defaults.** Displays the Log Data Set Defaults panel.
2. **List Data Set Defaults.** Displays the List Data Set Defaults panel.
3. **List Data Set Characteristics.** Displays the List Data Set Characteristics panel.
4. **JCL.** Displays the Log and List JCL popup.

The Log/List pulldown allows you to specify the log and list dataset defaults that are used when you terminate ISPF by issuing the **Return** or **End** commands or by entering an **X** on the ISPF Primary Option menu command line.

The defaults can also be used when you issue the Log or List command. You may specify the characteristics of the records to be contained in the list dataset when it is defined.



Establishing Settings on the Log Data Set Defaults Panel

Log Data Set Defaults is the first option on the Log List pulldown menu. To select this option, position the cursor in the field for option **1** and press **Enter**. The Log Data Set Defaults panel is displayed.

```
Log/List  Function keys  Colors  Environ  Workstation  Identifier  Help
-
ISPF Settings
Log Data Set Defaults
More:  +
0  Process option . . . . 1. Print data set and delete
                                2. Delete data set (without printing)
                                3. Keep data set (append subsequent
                                information to same data set)
                                4. Keep data set and allocate new data set
Batch SYSOUT class . . . .
Local printer ID or
writer-name . . . .
Local SYSOUT class . . . .
Lines per page . . . . 60
Primary pages . . . . 10
Secondary pages . . . . 10
Log Message ID . . . . (/ = Yes)
F1=Help      F2=Split    F3=Exit      F7=Backward  F8=Forward
M  F9=Swap    F12=Cancel
/ Scroll member list
/ Allow empty member list
/ Allow empty member list (nomatch)
/ Empty member list for edit only
Terminal Characteristics
Screen format 2 1. Data 2. Std 3. Max 4. Part
Terminal Type 3 1. 3277 2. 3277A 3. 3278 4. 3278A
Command ==> LOGDSD
F1=Help      F2=Split    F3=Exit      F7=Backward  F8=Forward  F9=Swap
F10=Actions  F12=Cancel
```

Figure 14: Log Data Set Defaults Panel

The initial defaults are displayed. Following is a description of each setting:

- **Process Option.** Used to provide four process options.
 - 1. Print data set and delete.** With this option you must also specify a SYSOUT class and job statement information.
 - 2. Delete data set (without printing).**
 - 3. Keep data set (append subsequent information to same data set).**
 - 4. Keep data set and allocate new data set.** (For subsequent information.)
- **SYSOUT Class.** Used to enter the SYSOUT class assigned to your system output dataset. For example, entering **A** causes ISPF to use the DD Statement "DD SYSOUT=A" when printing the log dataset.
- **Local Printer ID.** Used to enter the name that your installation has assigned to an IBM 328x type of printer. The default is blank. If you enter a name in this field, you must leave the SYSOUT class field empty.
- **Lines Per Page.** Used to enter the number of lines per page. Normal values are:



- 60 (when printing 6 lines per inch)
- 80 (when printing 8 lines per inch)

The number of lines per page can range from **1–999**. ISPF uses this value to determine when to cause a page eject if the eject control is not provided by the dialog.

- **Primary/Secondary Pages.** Used to allocate primary/secondary parameters which are specified in terms of the anticipated number of pages of printout. These values are automatically converted by ISPF to the appropriate number of blocks prior to allocating space for the log dataset.

If you modify the primary/secondary allocation parameters after the dataset has been allocated, the new values take effect the next time you start ISPF. The log dataset is allocated the first time you perform some action that results in a log message, such as saving edited data or submitting a batch job.

Note: Allocate a value of **0** to prevent allocation and generation of the log.

- **Log Message ID.** If you select the Log Message ID option, the message ID is automatically added to the long message text written in the LOG dataset.

If you request default processing options for the log dataset, the following rules apply:

- If you specify **Print data set and delete**, you must also specify SYSOUT class and job statement information. If you specify **Print data set and delete** for both log and list, you can specify different SYSOUT classes, but only one job is submitted for printing both datasets.
- If you specify routing to a local printer, you must specify a printer ID and SYSOUT must be blank.

Note: If you do not follow the aforementioned rules or do not specify default options, primary option **X** or the **Return** command causes the final termination panel to be displayed.



Settings for the List Data Set Defaults Panel

List Data Set Defaults is the second option on the Log List pulldown menu. To select this option, position the cursor in the field for option **2** and press **Enter**. The List Data Set Defaults panel is displayed.

```
Log/List  Function keys  Colors  Environ  Workstation  Identifier  Help
-----
ISPF Settings
List Data Set Defaults
+
0  Process option . . . . 1. Print data set and delete
                               2. Delete data set (without printing)
                               3. Keep data set (append subsequent
                               information to same data set)
                               4. Keep data set and allocate new data set

Batch SYSOUT class . . . .
Local printer ID or
writer-name . . . . .
Local SYSOUT class . . . .
Lines per page . . . . 60
Primary pages . . . . 100
Secondary pages . . . . 200

F1=Help      F2=Split      F3=Exit      F7=Backward  F8=Forward
M  F9=Swap      F12=Cancel

/ Scroll member list
  Allow empty member list
  Allow empty member list (nomatch)
/ Empty member list for edit only

Terminal Characteristics
Screen format 2 1. Data 2. Std 3. Max 4. Part

Terminal Type 3 1. 3277 2. 3277A 3. 3278 4. 3278A
Command ==> LISTDSD
F1=Help      F2=Split      F3=Exit      F7=Backward  F8=Forward  F9=Swap
F10=Actions  F12=Cancel
```

Figure 15: List Data Set Defaults Panel

The initial defaults are displayed. Following is a description of each setting:

- **Process Option.** Used to provide four process options.
 1. **Print data set and delete.** With this option you must also specify a SYSOUT class and job statement information.
 2. **Delete data set (without printing).**
 3. **Keep data set (append subsequent information to same data set).**
 4. **Keep data set and allocate a new data set.** (For subsequent information.)
- **SYSOUT Class.** Used to enter the SYSOUT class assigned to your system output dataset. For example, entering **A** causes ISPF to use the DD Statement "DD SYSOUT=A" when printing the log dataset.
- **Local Printer ID.** Used to enter the name that your installation has assigned to an IBM 328x type of printer. The default is blank. If you enter a name in this field, you must leave the SYSOUT class field empty.
- **Lines Per Page.** Used to enter the number of lines per page. Normal values are:



- **60** (when printing 6 lines per inch)
- **80** (when printing 8 lines per inch)

The number of lines per page can range from **1–999**. ISPF uses this value to determine when to cause a page eject if the eject control is not provided by the dialog.

- **Primary/Secondary Pages.** Used to allocate primary/secondary parameters which are specified in terms of the anticipated number of pages of printout. These values are automatically converted by ISPF to the appropriate number of blocks prior to allocating space for the log dataset.

If you modify the primary/secondary allocation parameters after the data set has been allocated, the new values take effect the next time you start ISPF. The log dataset is allocated the first time you perform some action that results in a log message, such as saving edited data or submitting a batch job.

Note: Allocate a value of **0** to prevent allocation and generation of the log.

- **Log Message ID.** If you select the Log Message ID option, the message ID is automatically added to the long message text written in the LOG dataset.

If you request default processing options for the log dataset, the following rules apply:

- If you specify **Print data set and delete**, you must also specify SYSOUT class and job statement information. If you specify **Print data set and delete** for both log and list, you can specify different SYSOUT classes, but only one job is submitted for printing both datasets.
- If you specify routing to a local printer, you must specify a printer ID and SYSOUT must be blank.

Note: If you do not follow the aforementioned rules or do not specify default options, primary option **X** or the **Return** command causes the final termination panel to be displayed.

After reviewing or changing the parameters on this panel, enter the **End** command to return to the previous menu.



Settings for the List Data Set Characteristics Panel

List Data Set Characteristics is the third option on the Log List pulldown menu. To select this option, position the cursor in the field for option **3** and press **Enter**. The List Data Set Characteristics panel is displayed.

Log/List	Function keys	Colors	Environ	Workstation	Identifier	Help
ISPF Settings						
List Data Set Characteristics						
Record Format	1	1. FBA 2. VBA				
Logical record length . .	121					
Line length	120					
F1=Help F2=Split F3=Exit F7=Backward F8=Forward F9=Swap						

Figure 16: List Data Set Characteristics Panel

This option is used to specify the record format, the logical record length, and the line length to be printed. When the characteristics are reset, their new values take effect at once unless the list dataset has already been allocated. In that case, the new values are used for the next list dataset allocation. These values are saved in your user profile, which ISPF automatically builds and maintains across sessions.

Specifications for logical record length and the line length values can affect the truncation of lines written to the list dataset by a LIST service request.

The fields on the List Data Set Characteristics panel are discussed below:

- **Record Format.** The record format specifies the format and characteristics of the records in the list dataset. The record formats designated for use are:
 - **FBA.** Fixed length records that contain ANSI-defined printer control characters. FBA is the default setting.
 - **VBA.** Variable length records that contain ANSI-defined printer control characters.
- **Logical Record Length.** The logical record length specifies the length, in bytes, of the fixed length records or the maximum length allowed for the variable length records. The default value is **121**.
- **Line Length.** The line length specifies the length of the logical line to be printed. If the specified line length is greater than the logical record length of the list dataset, data is truncated. The range of the lengths is from **80** bytes to **160** bytes. The default value is **120**.



Settings for the JCL Panel

JCL is the fourth option on the Log List pulldown menu. To select this option, position the cursor in the field for option **4** and press **Enter**. The Log and List JCL panel is displayed.

Log/List	Function keys	Colors	Environ	Workstation	Identifier	Help
<u>ISPF Settings</u>						
Log and List JCL						
<u>Job statement information:</u>		<u>(Required for system printer)</u>				
<hr/>						
<hr/>						
<hr/>						
<hr/>						
F1=Help F2=Split F3=Exit F9=Swap F12=Cancel						

Figure 17: Log and List JCL Panel

The Log and List JCL panel is used to provide a means to specify up to four default job statements to be used for printing a log or list dataset.



Viewing/Browsing Data

Viewing and browsing listings and source data stored in ISPF libraries or other partitioned or single-volume or multi-volume sequential datasets are accomplished through the use of the **View** option. View allows you to use all edit line commands, primary commands, and macros to manipulate the data. **Browse** allows you to use the browse primary commands to manipulate the data.

This section includes the following topics:

Using the View Entry Panel	29
Using the View Panel Action Bar.....	31
Browsing a Dataset	32

Using the View Entry Panel

To select the **View** option, type **1** at the option line and press **Enter**. The ISPF View Entry panel is displayed.

Menu	RefList	RefMode	Utilities	Workstation	Help
View Entry Panel					
<u>ISPF Library:</u>					
Project	...	_____			
Group	...	_____	...	_____	...
Type	...	_____			
Member	...	_____	(Blank or pattern for member selection list)		
<u>Other Partitioned, Sequential or VSAM Data Set, or z/OS UNIX file:</u>					
Name	...	_____	+		
Volume Serial	...	_____	(If not cataloged)		
<u>Workstation File:</u>					
File Name	...	_____			
			<u>Options</u>		
Initial Macro	...	_____	/ Confirm Cancel/Move/Replace		
Profile Name	...	_____	- Browse Mode		
Format Name	...	_____	- View on Workstation		
Data Set Password	...	_____	/ Warn on First Data Change		
Record Length	...	_____	- Mixed Mode		
			- View ASCII data		
Command ==> _____					
F1=Help	F2=Split	F3=Exit	F7=Backward	F8=Forward	F9=Swap
F10=Actions	F12=Cancel				

Figure 18: View Entry Panel

An ISPF library is a cataloged partitioned dataset or a partitioned dataset extended (PDSE). The library has a three-level name consisting of a project, group, and type. An optional library member name can also be included. A member consists of programming code, data, or text. Following is a discussion of the View panel.



For more information see:

Settings for ISPF Library.....	30
Other Partitioned or Sequential Dataset Names	30

Settings for ISPF Library

To name an ISPF library, you must specify at least a project, group, and type. Following is a discussion on the fields:

- **Project.** The common identifier for all ISPF libraries belonging to the same programming project is **Project**. This name must be your user ID unless you are using a specific project name that has been predefined in the MVS master catalog.
- **Group.** The identifier for a particular set of ISPF libraries, the level of the libraries within the library hierarchy, is **Group**.
- **Type.** The identifier for the type of information in the ISPF library, such as PL/1, SCRIPT, or PANELS, is **Type**.
- **Member.** A member selection list, also called a member list, is initially an alphabetic list of the members of an ISPF library to a TSO-partitioned dataset.
- Each component of the library name can be up to eight alphanumeric or national characters. The first one must be alphabetic.

Other Partitioned or Sequential Dataset Names

You can use the following field to specify any partitioned or sequential dataset:

- **Name.** You can include either a TSO user prefix or user ID as the first level qualifier of the dataset name. If you omit the single quotes and if you have created a TSO user prefix, that prefix is automatically added to the beginning of the dataset name. If you omit the single quotes and if you do not have a TSO user prefix, a prefix cannot be added, and the name is used exactly as it appears.

If you include your user prefix or ID, enclose the dataset name with apostrophes. If you include the apostrophe at the beginning of the dataset name but omit the one at the end, ISPF inserts it for you.

- **Volume Serial.** Along with a dataset name, you can optionally specify a volume serial. If you do, the system catalog is not used.
- **Initial Macro.** You can specify an Edit macro to be processed before you begin your sequential dataset or any member of a partitioned dataset. The initial macro enables you to



set up a particular environment for the View session you are beginning. If you leave the Initial Macro field blank and your Edit profile includes an initial macro specification, the initial macro from your Edit profile is processed. To suppress the processing of an initial macro in your Edit profile, enter **None** in the Initial Macro field.

- **Profile Name.** You can specify a profile name to override the default Edit profile.
- **Format Name.** Contains the name of a format definition, which is used to view or browse a formatted dataset.
- **Browse Mode.** Specifies that you want to browse the dataset using the Browse function. This function is useful for large datasets and datasets that are formatted RECFM=U.
- **Confirm Cancel/Move/Replace.** Specifies that you want ISPF to display a confirmation panel whenever you issue a Cancel, Move, or Replace command.
- **Mixed Mode.** Specifies that you want to view or browse unformatted data that contains both EBCDIC and DBCS characters.

Using the View Panel Action Bar

The View Entry Panel Action Bar is located at the top of the View Entry panel. Following is a description of the options.

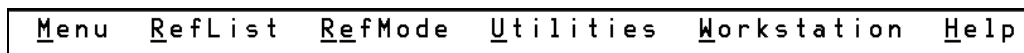


Figure 19: View Entry Panel Action Bar

Menu. The options on this menu are discussed in the section entitled **Using the Menu Options**.

Reflist. (For NFC Use Only) Reference lists are active lists of datasets and libraries that you have referenced in your ISPF session; however, its general use is not generally supported by NFC.

Refmode. (For NFC Use Only) Indicates the settings you used when making reference lists; however, its general use is not generally supported by NFC.

Utilities. (For NFC Use Only) Performs library and dataset maintenance tasks, such as moving or copying library or dataset members, displaying or printing dataset names and volume table of contents (VTOC) information, comparing datasets, and searching for strings of data. However, the general use of this option is not supported by NFC.

Help. Offers 21 options which provide assistance in operating in ISPF.



Browsing a Dataset

If you select the Browse mode on the View Entry Panel, ISPF displays either a member selection list or a Browse data display. If you specify a volume serial on the View Entry Panel, you can browse a single volume of a non-SMS, multi-volume dataset.

Each character in the data that cannot be displayed is changed on the display to either a period or a character that you have specified. Using the Display command, you can specify if printer carriage-control characters are to be treated as part of the data displayed.

During Browse, four-way scrolling is available through the scroll commands. You can also use **Find** and **Locate** commands to scroll to a particular character string, line number, or symbolic label.

Whenever you enter a command, ISPF highlights the character string.

To end Browse data display, use the **End** command. This will return you to the previous panel which is either a member list display or the View Entry panel. If a member list is displayed, the name of the member you just browsed is at the top of the list. You can select another member from the list or enter the End command again to return to the View Entry panel.



Editing a Dataset

The Edit option allows you to create, display, and change data stored in ISPF libraries or other partitioned or single-volume or multi-volume sequential datasets with the following characteristics:

- Record Format (RECFM):
 - Fixed or variable (non-spanned)
 - Blocked or unblocked
 - With or without printer control characters
- Logical Record Length (LRECL):
 - From 10 to 32760, inclusive, for fixed length records
 - From 14 to 32756, inclusive, for variable length records

This section includes the following topics:

Using the Edit Entry Panel	33
Using the Edit Panel Action Bar.....	36

Using the Edit Entry Panel

To access this option, type **2** at the option line and press **Enter**. The ISPF Edit Entry panel is displayed.



You also have the option of editing the host datasets on your workstation or editing workstation files on the host.

```
Menu  RefList  RefMode  Utilities  Workstation  Help
-----
                                Edit Entry Panel

ISPF Library:
Project . . . . .
Group . . . . .
Type . . . . .
Member . . . . . (Blank or pattern for member selection list)

Other Partitioned, Sequential or VSAM Data Set, or z/OS UNIX file:
Name . . . . . +
Volume Serial . . . . . (If not cataloged)

Workstation File:
File Name . . . . .

Options
Initial Macro . . . . . / Confirm Cancel/Move/Replace
Profile Name . . . . . - Mixed Mode
Format Name . . . . . - Edit on Workstation
Data Set Password . . . . . - Preserve VB record length
Record Length . . . . . - Edit ASCII data

Command ===>
F1=Help      F2=Split    F3=Exit      F7=Backward  F8=Forward  F9=Swap
F10=Actions  F12=Cancel
```

Figure 20: Edit Entry Panel

For more information see:

Editing a Host Dataset on the Workstation	34
Editing a Workstation File on the Host.....	35
Editing a Workstation File on the Workstation	35
Workstation File	35
Initial Macro	35
Profile Name	35
Format Name	35
Using Options.....	36

Editing a Host Dataset on the Workstation

The editor searches the ISPF libraries in the designated order to find the member and copy it to the workstation. The dataset name is converted to the workstation file name, and that name is appended to the workstation's current working directory. The host dataset is transferred to the workstation, and the working file is then passed to the user's chosen edit program.



Editing a Workstation File on the Host

The editor searches the workstation files to find the appropriate file and copy it into working storage. The workstation file name is converted to a host dataset name, and if greater than 44 characters, it is truncated to be 44 characters. The workstation file is then transferred to the host where it can be edited.

Editing a Workstation File on the Workstation

This type of edit proceeds as it normally does on the workstation.

Workstation File

This is the name of the file on your workstation that you want to edit.

Initial Macro

You can specify a macro to be processed before you begin editing your sequential dataset or any member of a partitioned dataset. This initial macro allows you to set up a particular editing environment for the Edit session you are beginning.

If you leave the Initial Macro field blank and your edit profile includes an initial macro specification, the initial macro from your edit profile is processed.

If you want to suppress the processing of an initial macro in your edit profile, type **NONE** in the Initial Macro field.

Profile Name

You can specify a profile name to override the default Edit profile.

Format Name

The format name contains the name of a format definition which is used to edit a formatted data set.



Using Options

- **Confirm Cancel/Move/Replace.** Specifies that you want ISPF to display a confirmation panel whenever you issue a Cancel, Move, or Replace command.
- **Mixed Mode.** Specifies that you want to edit unformatted data that contains both EBCDIC and DBCS characters.

Using the Edit Panel Action Bar

Options on the Edit Panel Action Bar are found at the top of the Edit Entry panel and are the same as on the View Edit Panel Action Bar. The **Menu**, **Reflist**, **Refmode**, and **Utilities** options were previously discussed in the View option. Following is a description of the remaining options.

- **LMF.** Used to edit-lock the member if in a controlled library that is part of a concatenation sequence, but only if the member does not exist in your private library. Specify one of the following values for **LMF**:
 - **Lock-Never.** Tells ISPF not to edit-lock the member and to retain this value for the future Edit sessions.
 - **Lock-No.** Tells ISPF not to edit-lock the member, but to change this value to Yes for the next Edit session.
 - **Lock-Yes.** Tells ISPF to edit-lock the member. The member is locked under your user ID.

Edit-locking is important for two reasons:

- Keeping other users from accessing that member while you are editing it.
- Promoting the member back to the controlled library when you have finished editing it. If you do not edit-lock the member, you cannot promote it.

If you save any changes you made while editing the member, it remains locked in your private library. The version of the member stored in the controlled library remains unchanged until you promote the one in your private library. If you leave Edit without saving the changes, they are lost.

- **Workstation.** This option is discussed in the section entitled Using the Edit Entry Panel.



Using Utilities

The Utilities option provides a variety of functions for library, dataset, and catalog maintenance.

This section includes the following topics:

Using Options on the Utility Selection Panel Action Bar	37
Using Library Utility Options	39
Using Utilities on the Panel Action Bar	40
Using the Data Set Utility Options.....	41
Using Move/Copy Utility.....	43
Using the Data Set List Utility.....	45
Reset ISPF Statistics Utility.....	46
Initiating Hardcopy Output	47

Using Options on the Utility Selection Panel Action Bar

To select the Utility Selection Panel Action Bar, type **3** at the option line and press **Enter**. The Utility Selection Panel action bar is displayed.

Menu Help	

Utility Selection Panel	
1 <u>Library</u>	Compress or print data set. Print index listing. Print, rename, delete, browse, edit or view members
2 <u>Data Set</u>	Allocate, rename, delete, catalog, uncatalog, or display information of an entire data set
3 <u>Move/Copy</u>	Move, copy, or promote members or data sets
4 <u>Dslist</u>	Print or display (to process) list of data set names. Print or display VTOC information
5 <u>Reset</u>	Reset statistics for members of ISPF library
6 <u>Hardcopy</u>	Initiate hardcopy output
7 <u>ISPF C/S</u>	Install ISPF C/S workstation code from MVS to your workstation.
8 <u>Outlist</u>	Display, delete, or print held job output
9 <u>Commands</u>	Create/change an application command table
11 <u>Format</u>	Format definition for formatted data Edit/Browse
12 <u>SuperC</u>	Compare data sets (Standard Dialog)
13 <u>SuperCE</u>	Compare data sets Extended (Extended Dialog)
14 <u>Search-For</u>	Search data sets for strings of data (Standard Dialog)
15 <u>Search-ForE</u>	Search data sets for strings of data Extended (Extended Dialog)
C <u>Catalog</u>	Catalog/Uncatalog Tape Files Build GDS
Option ==>	
F1=Help	F2=Split F3=Exit F7=Backward F8=Forward F9=Swap
F10=Actions	F12=Cancel

Figure 21: Utility Selection Panel

Following is a description of each option.

1. Library. Used to compress or print a dataset. Used to print an index listing. Used to print, rename, delete, browse, edit, or view members.



- 2. Data Set.** Used to allocate, rename, delete, catalog, uncatalog, or display information in an entire dataset.
- 3. Move/Copy.** Used to move, copy, or promote members or datasets.
- 4. Dslist.** Used to print or display (to process) list of dataset names. Used to print or display VTOC information.
- 5. Reset.** Used to reset statistics for members of ISPF library
- 6. Hardcopy.** Used to initiate hardcopy output.
- 7. ISPF C/S.** Used to install ISPF C/S workstation codes from MVS to your workstation.
- 8. Outlist.** Used to display, delete, or print-held job output.
- 9. Commands.** Used to create/change an application command table.
- 11. Format.** Used to format definition for formatted data Edit/Browse.
- 12. SuperC.** Used to compare datasets. (Standard Dialog)
- 13. SuperCE.** Used to compare datasets and Search for strings. (Extended Dialog)
- 14. Search-For.** Used to search datasets for strings of data. (Standard Dialog)
- 15. Search-ForE.** Used to search datasets for strings of extended data. (Extended Dialog)
- C. Catalog.** Used to catalog/uncatalog tapes and files.



Using Library Utility Options

Library is the first option on the Utility Selection panel. To access this option, type **1** at the option line and press **Enter**. The Library Utility panel is displayed.

```

Menu  RefList  Utilities  Help
-----
                                Library Utility

blank Display member list      I Data set information      B Browse member
C Compress data set           S Short data set information D Delete member
X Print index listing         E Edit member              R Rename member
L Print entire data set       V View member              P Print member

                                Enter "/" to select option
                                / Confirm Member Delete
                                _ Enhanced Member List

ISPF Library:
Project . . . _____
Group . . . _____
Type . . . _____
Member . . . _____ (If B, D, E, P, R, V, or blank selected)
New name . . _____ (If R selected)

Other Partitioned or Sequential Data Set:
Name . . . _____
Volume Serial . . . _____ (If not cataloged)

Data Set Password . . _____ (If password protected)

Option ==> _____
F1=Help      F2=Split      F3=Exit      F7=Backward  F8=Forward  F9=Swap
F10=Actions  F12=Cancel

```

Figure 22: Library Utility Panel

The Library Utility panel is displayed to allow you to specify a dataset and an action to be performed. This library is intended primarily for maintenance of partitioned datasets. The print index listing (**X**), print entire dataset (**L**), dataset information (**I**), and short dataset information (**S**) functions also apply to sequential datasets. Following is a description of the fields on this panel.

- **Display Member List.** Used to display a member list by leaving the Member field blank, omitting the member name from the name of another partitioned dataset, or entering a pattern as the member name.

You can use a combination of asterisks and percent signs in the same pattern. The pattern, including the asterisks and percent signs, cannot contain more than eight characters.

- **C Compress Data Set.** Used to specify any partitioned data set. The compress function is not valid for a PDSE. The compress is done by calling either the IEBCOPY utility or an optional compress request exit routine.
- **X Print Index Listing.** Used to specify either a Direct Access Storage Device (DASD)-resident sequential or partitioned dataset. The index listing is recorded in the ISPF list dataset. For a partitioned dataset, the index listing includes general information about the dataset followed by a member list. For a sequential dataset, the index listing includes general information.



- **L Print Entire Data Set.** Used to specify either a DASD-resident sequential or partitioned dataset. The allowable dataset characteristics are the same as for Browse, except datasets with a logical record length greater than 300 characters are not printed. The data should not contain any printer control characters. Use the Hardcopy utility (Option 3.6) to print datasets that contain printer control characters. A source listing of the complete dataset (including all members of a partitioned dataset), preceded by an index listing, is recorded in the ISPF list dataset.
- **I Data Set Information.** Displays the location, characteristics, and current space utilization of the specified dataset. For sequential datasets, options **I** and **S** display current allocation and utilization values that represent totals from all volumes used. Do not enter a volume serial when you are requesting information on a multi-volume dataset.
- **S Short Data Set Information.** Displays information about the selected dataset. The information displayed is the same information displayed by option **S** of the Data Set utility, but differs from option **I**. Information for partitioned datasets, when displayed by option **S**, lacks the number of maximum and used directory blocks, and the number of members. You may not enter a volume serial when you requisition information on multi-volume datasets.

The space for datasets allocated in blocks is calculated as if all of the tracks including the last one, contain only full blocks of data. Partial or short blocks are ignored.

For more information see:

Using the ISPF Library Fields..... 40

Using the ISPF Library Fields

All except one of the fields under ISPF Library on the Library Utility Panel have been explained in the section entitled Settings for the ISPF Library (View Entry Panel). The exception is the New Name field, which is described below.

New Name. Used to enter a new member name, which is used in conjunction with **R** Rename Member. However, if you are editing a member, you cannot rename the member.

Using Utilities on the Panel Action Bar

The options on the Panel Action Bar are displayed at the top of the Library Utility Panel. Following is a description of each option.

- **Menu.** Described in the section entitled Using the Menu Options on the Menu Action Bar.
- **RefList.** Described in the section entitled Using the View Panel Action Bar.



- **Utilities.** Described in the section entitled Action Bar pulldown menu.

Using the Data Set Utility Options

Data Set is the second option on the Utility Selection panel. To access this option, type **2** at the option line and press **Enter**. The Data Set Utility panel is displayed.

```

Menu  RefList  Utilities  Help
-----
                                Data Set Utility

  A Allocate new data set          C Catalog data set
  R Rename entire data set        U Uncatalog data set
  D Delete entire data set        S Short data set information
blank Data set information        V VSAM Utilities

ISPF Library:
Project . . . _____      Enter "/" to select option
Group . . . _____        / Confirm Data Set Delete
Type . . . . _____

Other Partitioned, Sequential or VSAM Data Set:
Name . . . . . _____
Volume Serial . . . _____ (If not cataloged, required for option "C")

Data Set Password . . . _____ (If password protected)

Option ==> _____
F1=Help      F2=Split      F3=Exit      F7=Backward  F8=Forward  F9=Swap
F10=Actions  F12=Cancel

```

Figure 23: Data Set Utility Panel

Following is a description of the fields.

Note: The fields are read left to right.

- **A Allocate New Data Set.** Used to allocate a new dataset. You must do the following:
 - Enter an ISPF library name in the Project, Group, and Type fields. The volume in the Volume Serial field is ignored. If you entered another dataset name, you can specify the volume on which to allocate the dataset in the Volume Serial field. If you want to use the authorized default volume or enter a generic unit address in the Generic Unit field on the allocate New Data Set panel, do not enter a volume serial.
 - Enter a partitioned or sequential dataset name in the Data Set Name field.
 - If your ISPF libraries and datasets are password-protected, enter the password in the Data Set Password field.
 - Press **Enter**.

The new dataset is allocated and cataloged. To return to the previous panel without allocating the dataset, type **END**.



- **C Catalog Data Set.** Used to specify that a particular dataset is cataloged. You must specify the volume serial on which the dataset resides, regardless if the dataset is specified as project, library, and type, or as another dataset name. The dataset must reside on the specified volume.
- **R Rename Entire Data Set.** Used to provide a new name to the entire dataset. If you specify a volume serial for a dataset to be renamed, ISPF checks to see if the dataset is cataloged on that volume. If it is, the rename panel prompts you to specify whether to recatalog the dataset. The displayed default for the field is **Yes**. If you specify a volume serial and the dataset is not cataloged, it remains uncataloged after you rename it. If a volume serial is not specified, the dataset is recataloged to the new dataset name and the old dataset name is uncataloged.
- **U Uncatalog Data Set.** Used to uncatalog a specific dataset. There is no need for the specified dataset to be allocated or for the volume on which it resides to be mounted. If the catalog entry being removed contains an expiration date, a confirmation panel is displayed.
- **D Delete Entire Data Set.** Used to delete a dataset. A confirmation panel is displayed when you select **D** (for delete). ISPF checks to see whether the dataset is cataloged on that volume. If it is, the confirm panel prompts you to specify if to uncatalog the dataset. It defaults to Yes. If a volume serial is not specified, and the dataset does not have an expiration data, the dataset is deleted and uncataloged.
- **S Short Data Set Information.** Displays information that resides on Storage Management Subsystem volumes when Digital Flat Panel (DFP) is installed and available and the Storage Management Subsystem is active.
- **Blank Data Set Information.** Displays information about the selected dataset. The information is the same as found on the topic of datasets in the section entitled Using Library Utility Options. For multi-volume datasets, options I and S display current allocation and utilization values that represent totals from all volumes used. When requesting information on a multi-volume dataset, you cannot enter a volume serial.
- **M Enhanced Data Set Allocation.** Allocates a new dataset by using the Storage Management Subsystem classes (management class, storage class, and data class). A dataset that is allocated on a volume that is managed by the Storage Management Subsystem is referred to as a managed dataset. Conversely, a dataset that is allocated on a volume that is not managed by the Storage Management Subsystem is called a nonmanaged dataset.
- **V VSAM Utilities.** Used to create the IDCAMS commands to define, delete, and list catalog information for VSAM datasets.



Using Move/Copy Utility

Move/Copy is the third option on the Utility Selection panel. To access this option, type **3** at the command line and press **Enter**. The Move/Copy Utility panel is displayed.

Menu RefList Utilities Help	
Move/Copy Utility	
C	Copy data set or member(s)
CP	Copy and print
M	Move data set or member(s)
MP	Move and print
Specify "From" Data Set below, then press Enter key	
From ISPF Library:	
Project	(--- Options C and CP only ---)
Group	
Type	
Member	(Blank or pattern for member list, "x" for all members)
From Other Partitioned or Sequential Data Set:	
Name	
Volume Serial	(If not cataloged)
Data Set Password	(If password protected)
Option ==>	
F1=Help	F2=Split F3=Exit F7=Backward F8=Forward F9=Swap
F10=Actions	F12=Cancel

Figure 24: Move/Copy Utility Panel

Following is a description of the fields.

- **C and CP Copying Data Sets.** Used to specify up to four input libraries as the "From" dataset. The libraries are searched from left to right as they are entered into the panel.

Use Option C to copy a dataset. You can specify either a DASD-resident sequential or partitioned dataset for both the "From" or "To" datasets. The "From" dataset is not deleted.

Use Option CP as you would Option C, except source listing are recorded in the ISPF list dataset as follows:

- If the "To" dataset is partitioned, a listing of each new or replaced member is recorded.
- If the "To" dataset is sequential, a listing of its complete contents is recorded.
- **M and MP Data Sets.** Used to specify up to four input libraries as the "From" dataset. Only the first library in the sequence is searched. Therefore, the member to be moved, which is either specified in the Member field or selected from a member list, is moved only if it is found in the first library. The other three library names remain on the panel and can be used with the C, CP, L, and LP options.

Use Option M to move a dataset. You can specify either a DASD-resident sequential or partitioned dataset for both the "From" or "To" datasets.

- If the "From" dataset is partitioned, the selected members are deleted from it.



- If the "From" dataset is sequential, the complete "From" dataset is deleted.

The MP Move and Print are the same as option M, except source listings are recorded in the ISPF list dataset as follows:

- If the "To" dataset is partitioned, a listing of each new or replaced member is recorded.
- If the "To" dataset is sequential, a listing of its complete contents is recorded.
- **L and LP Copying and Locking Data Sets.** Used to specify up to four input libraries as the "From" dataset. The libraries are searched from left to right as they are entered on the panel. The member to be locked, which is either specified in the Member field or selected from a member list, is locked from the first library in which it is found.

Use option L to copy data from a controlled library and lock the member in the controlled library.

The LP Copy, LMF lock, and print are the same as option L, except source listings are recorded in the ISPF list dataset, as follows:

- If the "To" dataset is partitioned, a listing of each new or replaced member is recorded.
- If the "To" dataset is sequential, a listing of its complete contents is recorded.
- **P and PP Promoting Data Sets.** Used to specify up to four input libraries as the "From" dataset. However, only the first library in the sequence is searched. The member to be promoted, which is either specified in the Member field or selected from a member list, is promoted only if it is found in the first library. The other three library names remain on the panel and can be used with the C, CP, L, and LP options.



Using the Data Set List Utility

Data Set List Utility is the fourth option on the Utility Selection panel. To access this option, type **4** at the command line and press **Enter**. The Data Set List Utility panel is displayed.

```

Menu  RefList  RefMode  Utilities  Help
-----
                        Data Set List Utility

blank Display data set list          P Print data set list
  V Display VTOC information          PV Print VTOC information

Enter one or both of the parameters below:
Dsnname Level . . . _____
Volume serial . . . _____

Data set list options
Initial View
1 1. Volume
2 2. Space
3 3. Attrib
4 4. Total

Enter "/" to select option
/ Confirm Data Set Delete
/ Confirm Member Delete
/ Include Additional Qualifiers
/ Display Catalog Name
- Display Total Tracks
- Prefix Dsnname Level

When the data set list is displayed, enter either:
"/" on the data set list command field for the command prompt pop-up,
an ISPF line command, the name of a TSO command, CLIST, or REXX exec, or
"=" to execute the previous command.

Option ==> _____
F1=Help      F2=Split      F3=Exit      F7=Backward  F8=Forward  F9=Swap
F10=Actions  F12=Cancel

```

Figure 25: Data Set List Utility Panel

Following is a description of the fields on this panel.

- **Dsnname Level.** Specifies the level or levels of any dataset that you want to list or print. When you specify the Dsnname level, you are defining the level qualifiers for the dataset names to be included in the list.
- **Volume Serial.** Specifies the volume serial whose VTOC is to be used to display or print a list of dataset names or VTOC information. ISPF retains the information you put in this field and displays it the next time you use the panel.
- **Volume.** Shows a dataset list that contains dataset names and the volumes on which they reside.
- **Space.** Shows a dataset list that contains dataset names, tracks, percentages used, extents, and devices.
- **Attrib.** Shows a dataset list that contains dataset names, dataset organizations, record formats, logical record lengths, and block sizes.
- **Total.** Shows a dataset list that contains all the information displayed by the Volume, Space, and Attributes views, in addition to created, expired, and referred dates.



- **Confirm Data Set Delete.** Controls whether the Confirm Delete panel appears when you are using the D (delete dataset) line command from the displayed datalist or the TSO Delete command.
- **Confirm Member Delete.** Controls if the Confirm Delete panel appears when you are using the D (delete) command for a member in the displayed dataset list.

Reset ISPF Statistics Utility

Reset is the fifth option on the Utility Selection panel. To access this option, type **5** at the Command line and press **Enter**. The Reset ISPF Statistics panel is displayed.

Menu RefList Utilities Help	
Reset ISPF Statistics	
R Reset (create/update) ISPF statistics D Delete ISPF statistics	
New Userid	(If userid is to be changed)
New Version Number	(If version number is to be changed)
SCLM Setting	
3 1. SCLM 2. Non-SCLM 3. As is	Enter "/" to select option
	/ Reset Mod Level
	/ Reset Sequence Numbers
	/ Reset Date/Time
	/ Reset Number of Lines
	- Generate extended statistics
ISPF Library:	
Project	
Group	
Type	
Member	(Blank or pattern for member selection list, "*" for all members)
Other Partitioned Data Set:	
Name	
Volume Serial	(If not cataloged)
Data Set Password	(If password protected)
Option ==>	
F1=Help	F2=Split F3=Exit F7=Backward F8=Forward F9=Swap
F10=Actions	F12=Cancel

Figure 26: Reset ISPF Statistics Panel

Following is a description of the fields.

- **New User ID.** Used to set the ID field in the statistics. Use this field if you want to change the user ID the statistics are recorded under.
- **New Version Number.** Used to change the version number.
- **Reset Mod Level.** Used to reset the modification level. This field is selected by typing in a slash.
- **Reset Sequence Numbers.** Used to reset the sequence numbers. This field is selected by typing in a slash.
- **SCLM Settings.** Used to determine the last type of edit the file had performed on it.

Following is an explanation of the settings:



- **SCLM.** Used to specify that the last edit of this file was under SCLM control if the bit is On.
- **Non-SCLM.** Used to specify that the last edit of this file was under control of other than the SCLM, if the bit is on.
- **As is.** Used to specify that this copy operation transfers the current setting of this as it already is, if the bit is on.
- **Reset Date/Time.** Used to determine whether or not to reset the Last Modified Date or Time and the Creation Date of the file.
- **Reset Number of Lines.** Used to determine whether or not to reset the Current Number of Lines, the Initial Number of Lines, and the Number of Modified Line settings.

Initiating Hardcopy Output

Hardcopy is the sixth option on the Utility Selection panel. To access this option, type **6** at the command line and press **Enter**. The Hardcopy Utility panel is displayed.

Menu	RefList	Utilities	Help
Hardcopy Utility			
Process option _ 1. Print and keep data set or member 2. Print and delete sequential data sets			
Name _____			
Volume Serial _____ (If not cataloged)			
Data Set Password _____ (If password protected)			
Print Mode <u>BATCH</u> (Batch or Local)			
Batch Sysout class _____ (BATCH only)			
Local printer ID or writer-name _____ (LOCAL only)			
Local Sysout class _____ (LOCAL only)			
Job statement information: (If not to local printer/external writer, verify before proceeding)			
====> _____			
====> _____			
====> _____			
====> _____			
Command ====> _____			
F1=Help F2=Split F3=Exit F7=Backward F8=Forward F9=Swap			
F10=Actions F12=Cancel			

Figure 27: Hardcopy Utility Panel

Following is a description of the fields that have not been previously described:

- **Print Mode.** Used to specify the print mode, either Batch, which submits your print request as a background job, or Local, which routes the data to a local printer that may be connected to your terminal group.
- **Sysout Class.** Used to specify the destination of the printed dataset. This is to be used when the dataset to be printed and SYSOUT class is specified.



- **Local Printer ID.** Used to specify the destination of the printed dataset. This is to be used when the dataset is to be printed and the local printer ID is specified.

For more information see:

Creating and Submitting JCL 48

Creating and Submitting JCL

To generate and submit JCL for print jobs, follow these steps:

1. Choose one of the options listed in the Process Option section of the panel. **1** (PK) for print and keep, or **2** (PD) for print and delete.
2. Type in a fully qualified dataset name and member name.
3. If the dataset is not cataloged, specify the volume serial.
4. If your dataset is password protected, type the password in the Data Set Password field.
5. Type in either **Batch** or **Local** in the Print Mode field.

Note: If you choose Batch, type a SYSOUT class and any job statement information you need. If you choose Local, type the name of a local printer in the Local Printer ID field.

6. Press **Enter**.

If you chose **Batch**, ISPF generates the JCL and displays the message *JCL Generated*. You can either cancel the job by typing Cancel in the Option field and pressing **Enter** or submit the job by typing End and pressing.

If you chose **Local**, ISPF calls the *PRINTDS TSO* command processor to print the dataset on the specified local printer.



SDSF

SDSF is option **S** (or **SD** when applicable) on the ISPF Primary Option Menu. SDSF allows the user to examine the status of all jobs that are present in the system. Specific system datasets or groups of datasets can be selected for browsing. Standard ISPF browse is used for scanning system output data, and therefore, all standard browse commands and facilities are available.

The SDSF option is used to view and print output at the user's terminal. The first panel is the SDSF Primary Option Menu panel. This panel is displayed when selecting Option **S** (or **SD** when applicable) on the ISPF Primary Option Menu.

```

  Display Filter View Print Options Search Help
-----
HGX7780 ----- SDSF PRIMARY OPTION MENU -----
-----
DA   Active users
I    Input queue
O    Output queue
H    Held output queue
SI   Status of jobs

PS   Processes

END  Exit SDSF

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COMMAND INPUT ==>
F1=HELP      F2=SPLIT      F3=END        F4=RETURN     F5=IFIND      F6=BOOK
F7=UP        F8=DOWN       F9=SWAP      F10=LEFT     F11=RIGHT    F12=RETRIEVE

SCROLL ==> PAGE

```

Figure 28: SDSF Primary Option Menu

Instructions follow for using the functions in this option.

This section includes the following topics:

Display Job List	49
SDSF Commands.....	50

Display Job List

The SDSF Status Display All Classes panel displays a listing of all job names specified for your user ID. From the Status Display All Classes panel, you are allowed several line commands.

To display the Job List in SDSF, perform the following actions:



- At the ISPF Primary Option menu, type **S** or (**SD** where applicable). The SDSF Primary Option menu is displayed.
- At the Command Input prompt, type **ST** (Status of Jobs) and press **Enter**. The SDSF Status Display All Classes panel shows information about the user and any jobs still in the system.

Display Filter View Print Options Search Help									

SDSF STATUS DISPLAY ALL CLASSES								LINE 1-1 (1)	
PREFIX=* DEST=(ALL) OWNER=NFB39 SYSNAME=									
NP	JOBNAME	-JOBID--	MC	--QUEUE---	JC	---MAXRC--	--RECORDS-	End-Time	End-Date
	NFXXX	TSU22188	Z	EXECUTION			54	0:00:00	0000.000



- 1=Status of Jobs on Any Que (ST)
- 2=Active Users (DA)
- 3=Input Que (I)
- 4=Output Que (O)
- 5=Help Output Que (H)
- *=Printers (PR)
- *=Initiators (INIT)
- *=Members in the MAS (MAS)
- *=User Session Log (U)
- *0=System Log (LOG)
- *1=Lines (LI)
- *2=Nodes (NO)
- *3=Spool Offload (SO)
- *4=Punches (PUN)
- *5=Readers (RDR)
- *6=Job Classes (JC)
- *7=Scheduling Environments (SE)
- *8=WLM Resources (RES)
- *9=System Requests (SR)
- *0=Spool Volumes (SP)
- *1=Enclaves (ENC)
- *2=Processes (PS)
- **Filter**
 - 1=Filter
 - 2=Prefix of Job Name
 - *=Owner
 - 4=Destination
 - 5=System Name
 - 6=Change APPC to OFF



- *=Replies on the Log
- **View**
 - 1=Sort
 - 2=Arrange
 - 3=Set Hex to On
 - 4=Change Field List to Alternate
 - 5=Who
- **Print**
 - 1=Print Open Systout
 - 2=Print Open Data Set
 - 3=Print Open File
 - *=Print
 - *=Print Close
 - 6=Print Screen With ISPF
- **Options**
 - 1=Set Action Character Display
 - 2=Find Limit
 - 3=Change Include SYSIN to On
 - 4=Set Bookshelf
 - 5=Set Display Values to Off
 - 6=Set Screen Characteristics
 - 7=Set Delay for Responses
 - 8=Set Communications Timeout
 - 9=Set Console Name
 - 10=Set Search Characters
 - 11=Assign PF Keys
 - 12=Change Show PF Keys to Off
 - 13=Set Language for Help and Tutorial
 - 14=Set Cursor to Off



- 15=Set Confirmation to On
- 16=Operlog Limit for Filter
- 17=Set Date Format
- 18=Set Log Default
- **Help**
 - 1=Extended Help
 - 2=Keys Help
 - 3=Help Index
 - 4=Tutorial
 - 5=Book
 - 6=Web Sites

Line Commands

Line commands are performed on and affect individual lines only. The following line commands may be used on the SDSF Status Display All Classes panel:

Code	Description
?	List all of a job's files.
S	Browse a file or the whole job.
O	Requeue a job to the printer. The user may have to go into the O option to change the class by typing over the C field for the job.
P	Purge (delete) a job.
H	Put the job on hold.
A	Release a job from hold.



Glossary of Terms

A

Action Bar

The area at the top of an ISPF panel that contains choices that give you access to actions available on the panel. When you select an action bar choice, ISPF displays a pulldown menu.

B

Browse

To look at a dataset member without changing it. In JES-Master, this queue represents jobs that have completed executing.

D

Dataset

The major unit of data storage and retrieval, consisting of a collection of data in one of several prescribed arrangements and described by control information to which the system has access.

Dataset Name

The term or phrase used to identify a dataset.

Default Printer

A printer which has been specified during the creation of your data. Printing will automatically activate to this printer when printing has been requested.

Destination

Any point or location (e.g., node, station, terminal) to which data is to be sent. The routed location for the member, dataset, or job.

E

Ellip

Three dots that follow a pulldown choice. When you select a choice that contains an ellipsis, ISPF displays a popup window.

Exec

Jobs on the execution queue. This queue has jobs that are awaiting execution as well as those that are currently executing.

F

File

A set of related records treated as a unit.



G

Group

A set of related records that have the same value for a particular field in all of the records, or a series of records logically joined together.

H

Hold

Jobs to be held in the print queue and later directed to a printer.

I

ISPF

Interactive System Productivity Facility is a programming tool which provides access to partitioned and sequential datasets.

J

JC

Job's execution class.

JCL

Job Control Language is a command language for mini and mainframe operating systems that launches applications. It

specifies priority, program size and running sequence, as well as the files and database used.

JES

Job Entry Subsystem is software that provides batch communications for IBM's MVS operating system. It accepts data from remote batch terminals, executes them on a priority basis, and transmits the results back to the terminals.

L

Library

A collection of related files.

M

Macro

A series of selections, keystrokes, and commands that have been recorded and assigned a name or key combination. When the macro is called or the key combination is pressed, the steps in the macro are executed from beginning to end.

Members

A collection of data units that are stored in a library.



O

Operating System

The master control program that runs the computer. It is the first program loaded when the computer is turned on, and its main part, called the kernel, resides in memory at all times. The operating system provides the user interface and controls multitasking. It handles the input and output to the disk and all peripheral devices. It also handles job scheduling.

Output

Data being delivered or to be delivered from a device or from a computer program.

P

Parameter

Any value passed to a program by the user or by another program in order to customize the program for a particular purpose. A parameter may be anything; for example, a file name, a coordinate, a range of values, a money amount, or a code of some kind.

Partition

A reserved part of disk or memory that is set aside for some purpose.

Partitioned Data Set (PDS)

A dataset in direct access storage that is divided into partitions, called members, each of which can contain a program, part of a program, or data.

Point-and-shoot Text

Words on a screen that are cursor sensitive.

Popup Window

A bordered temporary window that displays over another panel.

Pulldown menu

A list of numbered choices extending from the selection you made on the action bar. The action bar selection is highlighted. You can select an action either by typing in its number and pressing Enter or by selecting the action with your cursor. ISPF displays the requested panel. If your choice contains an ellipsis (...), ISPF displays a popup window. When you exit this panel or popup, ISPF closes the pulldown and returns you to the panel from which you made the initial action bar selection.

Push Button

A rectangle with text inside. Push buttons are used in windows for actions that occur immediately when the push button is selected (available only when running in Graphical User Interface (GUI) mode).



Q

Queue

A line or list formed by items in a system waiting for service. A list of jobs waiting to be executed.

R

Remote Printer

A printer that is connected to a computer by a telecommunication line.

Requeue

A command that releases the dataset from a HOLD status.

S

Sequential Dataset

A dataset whose records are organized on the basis of their successive physical positions, such as on magnetic tape.

Software

Programs, procedures, rules, and any associated documentation pertaining to the operation of a computer system.

Source Data

The data contained in a source program or source module. Data that includes program codes, test data, documentation, or data used in reports.

Sysout Class

A type of system output (SYSOUT). The two classes are A and X. Class A directs the output to a designated printer and a hard copy computer printout will be generated. Class X directs the output to be held in the SYSOUT queue to be viewed on the CRT screen.

T

TSO

A software that provides interactive communications for IBM's MVS operating system. It allows a user or programmer to launch an application from a terminal and interactively work with it.

U

Utility Program

A program that supports using the computer. Utility programs or "utilities" provide file management capabilities; such as sorting, copying, comparing, listing, and searching, as well as diagnostic and measurement routines that check the health and performance of the system.





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